Leonardo Alchieri

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🌐 Personal Website 　　🌐 GitHub 　　in LinkedIN 　　🌐 PyPI

Employment

Apr 2022 – Present 　🔖 **Research Assistant**.
Università della Svizzera Italiana (*USI*), Informatics. Lugano, Switzerland.
Currently pursuing my PhD in Informatics, where I collaborate on state-of-the-art research in the field of wearable devices, affective computing and more.

May – Oct 2021 　🔖 **Data Scientist Intern**.
KPMG Italy, Financial Risk Management. Milan, Italy.
Developed real-time cloud infrastructure for commodity trading.

(Selected) Research Publications

Journal Articles

1 Alchieri, L., Abdalazim, N., Alecci, L., Gashi, S., Gjoreski, M., & Santini, S. (2024). Lateralization effects in electrodermal activity data collected using wearable devices. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol*, *8*(1). 🔗 doi:10.1145/3643541

2 Alchieri, L., Badalotti, D., Bonardi, P., & Bianco, S. (2021). An introduction to quantum machine learning: From quantum logic to quantum deep learning. *Quantum Machine Intelligence*, *3*(2), 28. 🔗 doi:10.1007/s42484-021-00056-8

Workshop Articles

1 Alchieri, L., Alecci, L., Abdalazim, N., & Santini, S. (2023). Recognition of engagement from electrodermal activity data across different contexts. In *Adjunct proceedings of the 2023 acm international joint conference on pervasive and ubiquitous computing & the 2023 acm international symposium on wearable computing* (pp. 108–112).

2 Alchieri, L., Celona, L., & Bianco, S. (2023). Video-based emotion estimation using deep neural networks: A comparative study. In *International conference on image analysis and processing* (pp. 255–269). Springer.

Skills

Languages 　🔖 Excellent English and Italian. Intermediate German and basic French.

Coding 　🔖 Excellent in `Python`. High competence in `git`. Good knowledge of `C++`, `Bash`, `Docker`, `R`, `Java` and *Android Programming*.

Data Science 　🔖 Good knowledge of data science in general. Some cool bits: Affective Computing, Wearable Devices, Quantum Machine Learning.

ML Libraries 　🔖 Pytorch, Keras, Scipy, Scikit-Learn, (some) Tensorflow.

Cloud 　🔖 Google Cloud Platform, Kubernetes Engine, Google Pub\Sub, Memorystore Redis, CloudSQL.

Education

2022	**Ph.D. Informatics, Università della Svizzera Italiana** (USI). Currently attending
2019 – 2022	**M.Sc. Data Science, University of Milano-Bicocca** (*cum laude*). Thesis title: *Multi-Modal Continuous Valence-Arousal Estimation in Videos*
2016 – 2019	**B.Sc. Physics, University of Milano**. Thesis title: *Glitch classification in the Planck/HFI experiment using Neural Networks*
2014 – 2015	**Exchange Student USA**. Year abroad in the United States during High School. Awarded as the *Best Math Student* in the school.

Awards

2022	**Graduation Award *Silvio Tronchetti Provera Foundation***. Award given to top 12 students graduating with an MSc in Data Science from the University of Milano-Bicocca.
	2nd Place @ *The EMBC 2022 Workshop and Challenge on Detection of Stress and Mental Health Using Wearable Sensors*. Created ML-based model to predict stress from wearable sensors and achieving 2nd highest accuracy on the test set.

Miscellaneous Experience

2017 – 2022	**Private Tutoring**. Physics and Mathematics tutoring to High School and B.Sc. level students.
2015	**Internship INFN**. Physics internship at the Italian Physics Institute in Rome.
	Natural Preservation Volunteer Volunteer for natural reserve during Summer of 2015 in Lithuania.

References

Available on Request